

Near-Term Task Force Recommendation 5.1 Reliable Hardened Vents

U.S. Nuclear Regulatory Commission
January 17, 2012

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Introduction

- Welcome
- Administrative Items
 - Please sign in
 - Telephone bridge line participants
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 - Feedback forms
 - Meeting Summary
- Introduction of Meeting Participants

Recommendation 5.1 Project Team

- Robert Dennig – Technical Lead
- Timothy Collins – Senior Advisor
- Robert Fretz, NRR/JLD – Project Manager
- Jerome Bettel, SCVB
- Nageswara Karipineni, SCVB
- John Lane, RES
- Allen Notafrancesco, RES
- Brian Richter, NRR
- Carrie Safford, OGC
- Aaron Szabo, NRR

Agenda

- Meeting Objective
- NRC Steering Committee Perspectives
- Update Since December 15, 2011 Meeting
- Developing Recommendation 5.1 Requirements
- Regulated Industry Input
- Discussion
- Public Stakeholders' Comments and Questions
- Wrap-up and Closing Remarks

Meeting Objective

- Staff to receive information, comments, and concerns from public stakeholders on:
 - March 2012 order (no filters)
 - Requiring filters on the vents



STEERING COMMITTEE PERSPECTIVE

Update Since December 15 Meeting

- NRC Steering Committee Guidance
 - Appropriate to modify our approach and prudent to accelerate our schedule
 - Additional information needed on filters, therefore, interim orders will identify this as an issue still under consideration
 - Policy issue on filters will be presented to the Commission in the near-term
 - Licensees should design the reliable hardened vent, in such a way as to not preclude the installation of a filter in the future.
 - Industry input needed.

March 2012 Order General Requirements

- BWR Mark I and Mark II Containments Only
- All actions completed by **March 10, 2015**
- 20-Day Response
 - Unable to comply
 - Compliance would violate current license
 - Adversely impact safe operations
- **90-Day Response**
 - Schedule for achieving compliance
- Final Response
 - Notify NRC when actions completed

March 2012 Order Specific Requirements

- HCVS Functional (Performance) Requirements
- Schedule – Completion date may be amended if modifications require NRC prior approval (license amendment)

Proposed Performance Requirements for Reliable Hardened Vents

- The containment venting function should presume the occurrence of significant core damage and the presence of hydrogen.
- The vent should be capable of [passive] operation to limit pressure to the appropriate value, and [active] operation to permit depressurization at any time, for example to enable low pressure coolant injection into the RPV.

Proposed Performance Requirements for Reliable Hardened Vents (cont.)

- Operators should be able to vent containment from the wetwell and the dry well using permanently installed equipment under prolonged extended SBO conditions and without undue hazard to personnel.
- *[Venting system should be equipped with a filter to preserve the containment function as a barrier to fission products at all times and facilitate venting decision-making.]*

Proposed Performance Requirements for Reliable Hardened Vents (cont.)

- Venting system should avoid the use of common systems between units and not interfere with the operation of other safety and non-safety equipment.

Proposed Performance Requirements for Reliable Hardened Vents (cont.)

- Quality Standards
 - The vent path up to and including the second containment isolation barrier shall be designed consistent with the design basis of the plant (i.e., safety related).
 - Non-safety grade beyond containment isolation barriers.
 - Rugged design – withstand seismic event

Stakeholder Input

REGULATED INDUSTRY APPROACH

Recommendation 5.1 Requirements

DISCUSSIONS

Stakeholder Input

PUBLIC COMMENTS AND QUESTIONS FOR NRC STAFF

Next Steps

MEETING WRAP UP

Protecting People and the Environment

Next Steps

- Schedule
 - Notation Vote (SECY) Paper – February 17
 - Commission SRM – March 2
 - Issue Order – March 9
 - Filter SECY paper to the Commission for Notation Vote – Summer 2012
- Written comments will be accepted until January 27, 2012
 - JLD_Public.Resource@nrc.gov